

## MITIGATING INTERFERENCE BETWEEN WIRELESS SYSTEMS

### Abstract of the Disclosure

Two separate radio frequency networks may be operated within interference distance from one another in a way which mitigates the possibility of interference. Using received signal strength indicator data, the nature of the interference may be determined without actually demodulating the interfering signal. The timing of the interfering signal and its characteristic features may be determined. Using that information, together with the probability that any given slot will actually be occupied by an interfering transmission, a statistics package may be developed which gives an indication of the probability of a transmission from the interferer at any given time. That package may be transmitted to other nodes in the same network. When a first node wishes to transmit information to a second node, the first node may analyze the statistics package received from the second node. The first node may thereby make a determination about when to actually initiate the transmission to the second node.

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